

Abstract

Method and System for Reducing Noise in a Multi-Carrier Signal

5 A receiver 100 for receiving a multi-carrier signal comprises detection means for detecting 801 the presence of impulse interference within the signal and identifying one or more samples of the signal affected by the impulse interference, means for selecting samples to be blanked, means for blanking the selected samples and means 805 for estimating the blanked signal. The selected samples comprise those samples
10 (l_0 to $l_0 + k$) identified as being affected by impulse interference and at least one of the following: a number of samples x_1 preceding the said identified samples (l_0 to $l_0 + k$) or a number of samples x_2 following the said identified samples (l_0 to $l_0 + k$). The blanking means may define the length of a blanking window 301 to have one of a plurality of different predetermined lengths, using the smallest of the
15 predetermined lengths sufficient to encompass the selected samples.